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## Some new indexes of cluster validity

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328	Improving the performance of visualized clustering method. <b>2016</b> , 7, 102-111		5
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325	Unsupervised segmentation of lung fields in chest radiographs using multiresolution fractal feature vector and deformable models. <b>2016</b> , 54, 1409-22		10
324	Objectively quantifying walking ability in degenerative spinal disorder patients using sensor equipped smart shoes. <b>2016</b> , 38, 442-9		20
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322	Adapting Project Organization to Its Complexity. <b>2016</b> , 205-273		
321	Does business model affect accounting choices? An empirical analysis of European listed companies. <b>2016</b> , 20, 229-260		6
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319	A new validity index for crisp clusters. <b>2017</b> , 20, 687-700		39
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316	A novel onset detection technique for brain-computer interfaces using sound-production related cognitive tasks in simulated-online system. <b>2017</b> , 14, 016019		8
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313	Particle swarm clustering fitness evaluation with computational centroids. <b>2017</b> , 34, 103-118		11
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291	Towards interval-valued fuzzy set-based collaborative fuzzy clustering algorithms. <b>2018</b> , 81, 404-416	17
290	Indefinite kernel spectral learning. <b>2018</b> , 78, 144-153	3

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285	Using ontology-based clustering to understand the push and pull factors for British tourists visiting a Mediterranean coastal destination. <b>2018</b> , 55, 145-159		18
284	Fast approximate minimum spanning tree based clustering algorithm. <i>Neurocomputing</i> , <b>2018</b> , 272, 542-557		22
283	Interpreting Cluster Structure in Waveform Data with Visual Assessment and Dunn's Index. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 73-101	0.8	5
282	GPS Trajectory Clustering and Visualization Analysis. <b>2018</b> , 5, 29-42		2
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268	A novel internal validity index based on the cluster centre and the nearest neighbour cluster. <i>Applied Soft Computing Journal, 2018, 71, 78-88</i>	7.5 23
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266	Multi-Factored Gene-Gene Proximity Measures Exploiting Biological Knowledge Extracted from Gene Ontology: Application in Gene Clustering. <b>2020, 17, 207-219</b>	3
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264	I-nice: A new approach for identifying the number of clusters and initial cluster centres. <b>2018, 466, 129-151</b>	42
263	Self-Healing in Emerging Cellular Networks: Review, Challenges, and Research Directions. <b>2018, 20, 1682-1709</b>	40
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260	A Novel Technique for Selecting EMG-Contaminated EEG Channels in Self-Paced Brain-Computer Interface Task Onset. <b>2018, 26, 1353-1362</b>	11
259	Biological and Behavioral Patterns of Post-Stroke Depression in Rats. <b>2018, 45, 451-461</b>	16
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256	Occam's Razor for Big Data? On Detecting Quality in Large Unstructured Datasets. <b>2019, 9, 3065</b>	8
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248	Segmentation of tomato leaf images based on adaptive clustering number of K-means algorithm. <b>2019</b> , 165, 104962		44
247	Stability of individual object in construction of voting-merged approach. <b>2019</b> ,		
246	Evolutionary computing based hybrid bisecting clustering algorithm for multidimensional data. <b>2019</b> , 44, 1		1
245	Clustering Validation for mmWave Multipath Components in Outdoor Transmissions. <b>2019</b> ,		
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243	A fast hybrid clustering technique based on local nearest neighbor using minimum spanning tree. <i>Expert Systems With Applications</i> , <b>2019</b> , 132, 28-43	7.8	9
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240	A Three-Way Clustering Method Based on Ensemble Strategy and Three-Way Decision. <b>2019</b> , 10, 59		7
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236	Consensus Clustering by Weight Optimization of Input Partitions. <b>2019</b> ,		



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234	Silhouette width using generalized mean-A flexible method for assessing clustering efficiency. <b>2019, 9, 13231-13243</b>		26
233	A Parallel and Distributed Radial Basis Function Network for Big Data Analytics. <b>2019,</b>		
232	General Semi-supervised Possibilistic Fuzzy c-Means clustering for Land-cover Classification. <b>2019,</b>		2
231	Deep and Structure-Preserving Autoencoders for Clustering Data With Missing Information. <b>2019, 1-12</b>		4
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221	Absolute Cluster Validity. <b>2020, 42, 2096-2112</b>		7
220	Unsupervised video summarization via clustering validity index. <b>2020, 79, 33417-33430</b>		2
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218	A new internal index based on density core for clustering validation. <b>2020, 506, 346-365</b>		12

217	Bounded Fuzzy Possibilistic Method. <b>2020</b> , 389, 51-65		5
216	An improved non-intrusive load disaggregation algorithm and its application. <b>2020</b> , 53, 101918		17
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210	A benchmark study on time series clustering. <b>2020</b> , 1, 100001		12
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197	An Ensemble of Locally Reliable Cluster Solutions. <b>2020</b> , 10, 1891		14
196	Outdoor mmWave Channel Propagation Models using Clustering Algorithms. <b>2020</b> ,		
195	Analysis of journal evaluation indicators: an experimental study based on unsupervised Laplacian score. <b>2020</b> , 124, 233-254		3
194	A minimum spanning tree based partitioning and merging technique for clustering heterogeneous data sets. <b>2020</b> , 55, 587-606		1
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188	A hybrid interval type-2 semi-supervised possibilistic fuzzy c-means clustering and particle swarm optimization for satellite image analysis. <b>2021</b> , 548, 398-422		8
187	A Differential Evolution Algorithm With Adaptive Niching and K-Means Operation for Data Clustering. <b>2020</b> , PP,		1
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185	Two phase cluster validation approach towards measuring cluster quality in unstructured and structured numerical datasets. <b>2021</b> , 12, 7581-7594		8
184	A Comprehensive Review of Evaluation and Fitness Measures for Evolutionary Data Clustering. <b>2021</b> , 23-71		3
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182	Three-Way Clustering Method Based on Stability Theory. <b>2021</b> , 9, 33944-33953		5

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177	Cluster Validation in Unsupervised Machine Learning with Application to the Analysis of the Tourism Demand in Italy after COVID-19 Lockdown. <i>SSRN Electronic Journal</i> ,	1	
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175	A new ensemble clustering method based on fuzzy cmeans clustering while maintaining diversity in ensemble. <b>2021</b> , 17, 103-122		1
174	EGRNN++ and PNN++ : Parallel and Distributed Neural Networks for Big Data Regression and Classification. <b>2021</b> , 2, 1		1
173	Taxonomy of Manufacturing Firms Flexibility Under Influence of Dynamic Organizational Capabilities. <b>2021</b> , 20, 549-574		
172	A fast partition method for wind pressure coefficient of large-span roof based on modified GK clustering. <b>2021</b> , 30, 518-530		6
171	An Ensemble Clusterer Framework based on Valid and Diverse Basic Small Clusters. <b>2021</b> , 20, 1189-1219		
170	Epilepsy Diagnosis Using Multi-view & Multi-medoid Entropy-based Clustering with Privacy Protection. <b>2021</b> , 21, 1-21		14
169	An adaptive and opposite K-means operation based memetic algorithm for data clustering. <i>Neurocomputing</i> , <b>2021</b> , 437, 131-142	5.4	6
168	. <b>2021</b> , 34, 194-206		3
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165	Assessing partially ordered clustering in a multicriteria comparative context. <b>2021</b> , 114, 107850		1
164	Dynamic Structural Clustering on Graphs. <b>2021</b> ,		1

163	A survey of cluster validity indices for automatic data clustering using differential evolution. <b>2021</b> ,		2
162	A new data envelopment analysis-based model for failure mode and effect analysis with heterogeneous information. <b>2021</b> , 157, 107350		3
161	Knowledge economy classification in African countries: A model-based clustering approach. 1-25		
160	Polygonal Coordinate System: Visualizing high-dimensional data using geometric DR, and a deterministic version of t-SNE. <i>Expert Systems With Applications</i> , <b>2021</b> , 175, 114741	7.8	2
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157	Isolation forests and landmarking-based representations for clustering algorithm recommendation using meta-learning. <b>2021</b> , 574, 473-489		5
156	Dynamic time warp-based clustering: Application of machine learning algorithms to simulation input modelling. <i>Expert Systems With Applications</i> , <b>2021</b> , 186, 115684	7.8	0
155	Combination Evaluation Method of Fuzzy C-Mean Clustering Validity Based on Hybrid Weighted Strategy. <b>2021</b> , 9, 27239-27261		4
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153	Collaborative Rough Clustering. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 768-773	0.9	4
152	Data Summarization Approach to Relational Domain Learning Based on Frequent Pattern to Support the Development of Decision Making. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 889-898	0.9	11
151	Application of a Two-Level Self Organizing Map for Korean Online Game Market Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 808-816	0.9	1
150	Clustering of Symbolic Data and Its Validation. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 339-344	0.9	5
149	Encyclopedia of Database Systems. <b>2009</b> , 388-393		1
148	Personalization of Supermarket Product Recommendations. <b>2001</b> , 11-32		24
147	Self-Organizing Maps Fusion: An Approach to Different Size Maps. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 568-579	0.9	1
146	Interactive GSOM-Based Approaches for Improving Biomedical Pattern Discovery and Visualization. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 556-561	0.9	1

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144	Conceptual Clustering Applied to Ontologies. <b>2007</b> , 42-56		1
143	Discovery of Gene Regulatory Networks in <i>Aspergillus fumigatus</i> . <b>2006</b> , 22-41		2
142	Parallel Fuzzy c-Means Cluster Analysis. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 52-65	0.9	9
141	Automatic Segmentation of Natural Scene Images Based on Chromatic and Achromatic Components. <b>2007</b> , 482-493		6
140	Retracted Article: A New Cluster Validity Index for Fuzzy Clustering Based on Similarity Measure. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 127-135	0.9	5
139	A New Greedy Algorithm for Improving b-Coloring Clustering. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 228-239	0.9	3
138	The Study of Dynamic Aggregation of Relational Attributes on Relational Data Mining. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 214-226	0.9	7
137	Discretization Numbers for Multiple-Instances Problem in Relational Database. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 55-65	0.9	7
136	Using Self Organising Feature Maps to Unravel Process Complexity in a Hospital Emergency Department: A Decision Support Perspective. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 365-385	0.8	3
135	A Reasonable Rough Approximation for Clustering Web Users. <b>2006</b> , 428-442		4
134	Rough-Fuzzy Clustering: An Application to Medical Imagery. <b>2008</b> , 300-307		16
133	A Fuzzy Extension of Some Classical Concordance Measures and an Efficient Algorithm for Their Computation. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 755-763	0.9	3
132	Knee Point Detection in BIC for Detecting the Number of Clusters. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 664-673	0.9	42
131	Rough Clustering with Partial Supervision. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 137-161	0.8	3
130	A Load Balancing Knapsack Algorithm for Parallel Fuzzy c-Means Cluster Analysis. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 269-279	0.9	6
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126	LightShop: An Interactive Lighting System Incorporating the 2D Image Editing Paradigm. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 59-70	0.9	3
125	Estimation of the Number of Clusters Using Multiple Clustering Validity Indices. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 114-123	0.9	20
124	An Improved AntTree Algorithm for Document Clustering. <b>2010</b> , 481-488		1
123	Toward Improving Re-coloring Based Clustering with Graph b-Coloring. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 206-218	0.9	3
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- 1 Component-wise design method of fuzzy C-means clustering validity function based on CRITIC combination weighting.

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